

**PROGRESS REPORT OF
WOLF POPULATION MONITORING
IN WISCONSIN
FOR THE PERIOD
OCTOBER - DECEMBER 2003**

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SUMMARY

In fall 2003, 49 radio collared wolves were monitored across northern and central Wisconsin and eastern Minnesota. Forty-seven wolves were monitored in 36 packs and 2 appeared to be dispersing through out the period. Of the wolves monitored, 5 died and signals were lost on 9 wolves. During 2003, 21 wolves were captured by DNR and 2 were captured by coyote trappers (one recapture), and were fitted with radio transmitters. In 2003, 23 cases of wolf depredation were recorded, and USDA-Wildlife services captured 17 wolves on 5 farms, and were euthanized by DNR. During the year, 53 wolves were found dead in the state, including 20 radio tagged wolves.

INTRODUCTION

The enclosed report provides a summary of wolf monitoring activity in Wisconsin for the period of October through December 2003, and annual summaries of total captures, mortalities, and depredations for the year 2003. A more thorough report on winter surveys will be completed in spring 2004, along with an estimation of the winter wolf population. Gray wolves have been listed as state threatened since October 1, 1999. Wolves had been federally listed as endangered since 1974, and were reclassified to threatened status on April 1, 2003. Last winter 335–354 wolves were counted in 94 packs across the state, and included 12 loners. A total of 328–347 wolves occurred outside of Indian reservations.

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RESULTS AND DISCUSSION

Radio tagged wolves were monitored in 35 packs in Wisconsin and two in Minnesota (Table 1). Thus radio collared wolves occurred in 37% of state packs. A total of 49 radio collared and radio ear-tagged wolves were monitored in Wisconsin and eastern Minnesota during portions of the fall, and by the end of the period 35 wolves remained on the air. Two wolves were captured in the fall in coyote traps including recapture of wolf 332F in the Pelican Lake Pack and initial capture of 472F in the Bearsdale Pack. Losses during the quarter included 5 deaths (351M, 458F, 464F, 489M and 411F), and 9 signal losses (332F, 432F, 448F, 457M, 466F, 474M, 482M, 414F, and 416M). Mortalities of collared wolves included 2 shootings, 2 mange, and 1 killed by other wolves.

Twenty-three wolves were live captured in Wisconsin and fitted with radio transmitters in 2003 (Table 2). Twenty-one wolves were captured by DNR and two were captured by coyote trappers. Six of the wolves captured by the DNR were pups fitted with short-term eartag transmitters to assess pup mortality in central Wisconsin.

Twenty-three cases of wolf depredation on domestic animals were verified by USDA-Wildlife Services in Wisconsin in 2003 (Table 3). Total payments were likely to exceed the 21,798.89 listed in Table 3. Total kill

of 50 animals and injury of 4 animals was somewhat down from previous years, but the 14 farms with depredation problems was the highest level recorded. Four of 13 farms with depredation on livestock were chronic farms that also had depredation problems within the last 5 years.

Livestock depredations (including a deer farm) occurred on 14 farms in 10 counties. Cattle kill involved 20 cattle on 11 farms in 9 counties. Sheep were killed on 2 farms in 2 counties and included 24 total sheep. One deer was killed on a deer farm. Live trapping was conducted by USDA-Wildlife Services on 7 farms, and 17 wolves were captured on 5 farms. All captured wolves were euthanized by DNR (Table 4). Seven packs and probably 3 loners were involved in depredations on livestock.

Wolf depredation on dogs included 6 dogs killed and 4 injured. Four of the dogs killed occurred in the Haystack Corner Pack. Five packs killed or injured dogs, and one pack (Blue Hills) attacked dogs and livestock. Injuries include 2 dogs injured near human home sites, but all dog kills were hunting or training in wild land areas on public lands. Dog attacks declined from 10 killed in 2002 and 17 killed in 2001.

A total of 30 farm and individual wolf complaints were reported to USDA-Wildlife Services in which wolf presence was verified during 2003 (Table 4). These complaints included: 4 farms with chronic wolf depredation, 9 farms with first-time depredations, 5 farms with wolf threats, 1 deer farm depredation, 6 hunting dog depredations, 3 domestic dog injuries, 1 missing dog possibly due to wolves, and 2 human safety concerns. These complaints included 22 in Zone 1, 3 in Zone 2 and 5 in Zone 3 (Figure 1). Along with trapping and removal of 17 wolves from 5 farms, non-lethal controls were applied to 3 farms. A total of 93 wolf complaints were received by Wildlife Services in 2003. Twenty-three were classified by Wildlife Services as confirmed and 14 were classified as probable wolf. Thirty were confirmed as non-wolf (15 coyote, 9 dog or wolf-dog hybrid, 1 bear, and 5 other mortalities). Twenty-three were unconfirmed by Wildlife Services, and 3 were unclassified.

A total of 53 mortalities were detected in Wisconsin in 2003, and included 20 radio tagged wolves (Table 5). Overall mortalities include 14 (26%) due to vehicle collisions, 17 (32%) euthanized at depredation sites, 9 (17%) shot illegally, 6 (11%) mange related, 2 (4%) other disease, 1 (2%) other wolves, and 4 (8%) unknown causes. Of the total wolves found dead, 82% of known mortalities were human-caused. Thirty-eight of the wolves found dead were yearlings or adults, thus representing 11% of wolves known to be alive in winter 2002-2003. Wolves euthanized at depredation sites included 9 adults, thus representing 3% of wolves known present in winter 2002-2003.

A total of 20 radio collared wolves were found dead in 2003 and included 3 (15%) vehicle collisions, 1 (5%) euthanized at depredation site, 4 (20%) illegal shooting, 6 (30%) mange, 1 (5%) other disease, 1 (5%) other wolves, and 4 (20%) unknown mortalities. Fifty percent of known mortality of collared wolves was human caused. A total of 76 wolves were radio tagged during portions of 2003, thus 20 wolves represent a rough mortality rate of about 26%. Collared wolves represent a less biased perspective of overall mortality, although the rate of illegal kill was similar for collared wolves and the overall sample (20% vs 17%). Overall rate of illegal kill in 2003 was 9 of 53 dead wolves (17%), compared to 16 of 60 wolves in 2002 (27%), and 7 of 27 wolves (26%) in 2001. Illegal kill apparently continued to be an important form of wolf mortality, but may have declined slightly.

PLANS FOR NEXT QUARTER

Aerial monitoring of radio tagged wolves will continue, with special efforts made to get counts of packs when good snow cover occurs. Snow tracking will be used by DNR and volunteer trackers to locate and estimate numbers of wolves in non-collared packs. Territorial mapping will be used to determine the size and distribution of the wolf population. Attempts will also be made to estimate the state wolf population using a procedure similar to that used in Minnesota by seeking wolf sign and visual observations from natural resource agency and private forest industry personnel operating in the state. State wolf delisting should be completed this quarter.

Table 1. Radio-collared wolves monitored in northern and central Wisconsin and eastern Minnesota October - December 2003.

Wolf Number	Age^a	Pack/Area	Counties	Date Captured	Last Date	Locations^b
<u>Northern Forest</u>						
G994M	A	Ranger Island	Lincoln	20 Jul 03	Ongoing	15
M036F	Y	West Firelane	Ashland	4 May 00 ^c	Ongoing	142
248M	A	Torch River	Ashland/Sawyer	28 Jun 00	Ongoing	180
332F	A	Pelican Lake	Oneida	29 May 00 ^d	25 Nov 03 ^e	203
336M	Y	Pike River area	Marinette/Florence	3 Jun 01	Ongoing	117
351M	A	Chippewa River	Ashland/Iron	17 Jun 00	19 Dec 03 ^f	178
355M	A	Little Rice River	Oneida/Price	28 Jun 01	Ongoing	132
376F	Y	Stella Lake	Oneida	12 Jun 01	Ongoing	140
388M	A	Crex Meadow	Pine (MN)	25 Jul 01	Ongoing	132
393F	P	Long Lake	Rusk	31 Jul 01 ^g	Ongoing	127
432F	Y	Butler Rock area	Marinette/Oconto	25 Jul 02 ^h	22 Oct 03 ^e	82
434M	A	MN pack	Pine (MN)	29 May 02	Ongoing	82
438M	A	Flag River	Bayfield	21 May 02	Ongoing	83
439F	A	Flag River	Bayfield	22 May 02	Ongoing	83
444F	A	Hellhole Creek	Ashland/Bayfield	25 Jun 02	Ongoing	79
446F	A	Disperser	Washburn	13 Jun 02	Ongoing	81
447F	A	Bird Sanctuary	Douglas	21 Jun 02	Ongoing	82
448F	Y	Pine Lake/Disperser	Iron/Ashland/Price	20 May 02	22 Dec 03 ^e	83
449M	P	Oconto River	Oconto/Menominee	18 Jul 02 ⁱ	Ongoing	79
452F	P	Oconto River	Oconto/Menominee	22 Jul 02 ⁱ	Ongoing	78
454F	A	Oconto River	Oconto/Menominee	19 Jul 02 ⁱ	Ongoing	71
456F	Y	Somo River/Disperser	Linc./Oneida/Price/Taylor	12 Jul 02 ^j	Ongoing	78
457M	A	Round Lake	Sawyer	10 Sep 02	1 Dec 03 ^e	59
458F	A	Disperser?	Forest	4 Sep 02	19 Dec 03 ^f	68
460F	A	Clam River area	Burnett/Polk	17 Oct 02	Ongoing	63
461F ^k	P	North Willow	Oneida	20 Nov 02	Ongoing	59
462M	A	Black Lake	Sawyer/Ashland	1 Jun 03	Ongoing	33
464F	A	Moreland Lake/Disperser	Bayfield	16 May 03	17 Dec 03 ^f	31
466F	Y	Bootjack Lake/Disperser	Price/Oneida/Vilas	2 Jul 03	31 Dec 03 ^e	26
469M	A	Murray's Landing	Iron	6 Aug 03	Ongoing	23
472F	Y	Bearsdale	Bayfield	7 Nov 03	Ongoing	10
473M	A	Moose Lake	Douglas	29 Jun 03	Ongoing	28
474M	A	Dunbar	Marinette	19 May 03	31 Dec 03 ^e	28

Table 1. cont.

Wolf Number	Age^a	Pack/Area	Counties	Date Captured	Last Date	Locations^b
479M	P	Ranger Island	Lincoln	23 Aug 03	Ongoing	20
481M	A	Murray's Landing	Iron	7 Jul 03	Ongoing	27
482M	A	North Willow	Oneida	10 Jun 03	14 Nov 03 ^e	22
485F	Y	Averill Creek	Lincoln	7 Sep 03	Ongoing	17
489M	P	Averill Creek	Lincoln	23 Aug 03	25 Nov 03 ^f	14
<u>Central Forest</u>						
311F	Y	Bear Bluff/Disperser	Jackson/Wood/Clark	1 Aug 03 ^l	Ongoing	384
338M	P	Rattail	Juneau/Wood	28 Jul 01	Ongoing	117
340F	A	Rattail	Juneau/Wood	5 Aug 01	Ongoing	115
341F	Y	Seneca	Wood	31 May 01	Ongoing	126
411F	P	Dead Creek	Jackson/Monroe/Juneau	23 Jul 03	25 Nov 03 ^f	21
413F	P	Bear Bluff	Jackson/Monroe	5 Aug 03	Ongoing	23
414F	P	Seneca	Wood	10 Aug 03	27 Oct 03 ^e	21
416M	P	Wildcat Mound	Jackson	9 Sep 03	6 Nov 03 ^e	12
426F	Y	Bear Bluff/Disperser	Jackson/Wood	2 Jul 02 ^m	Ongoing	63
429F	A	Martin Marsh	Jackson	3 Jun 02	Ongoing	69
465F	A	Ft. McCoy	Monroe	6 Jul 02	Ongoing	10

34 wolves in 28 packs, and 2 dispersers in Northern Forest, 25 still on air at end of monitoring period

11 wolves in 7 packs in Central Forest, 8 still on air at end of monitoring period

2 wolves in 2 packs in eastern Minnesota, 2 still on air at end of monitoring period

^aAge at time of capture (P = Pup, Y = Yearling, A = Adult)

^bTotal locations from the time of capture

^cCaptured in Gogebic County, Michigan

^dRecaptured wolf, in Oneida County on 28 October 2003

^eLost signal

^fMortality

^gCaptured by Wildlife Services in Burnett County, translocated to Oneida County 28 Aug 2001

^hCaptured by Wildlife Services in Burnett County, translocated to Price County 25 Jul 2002

ⁱCaptured by Wildlife Services in Langlade County, translocated to Menominee County 29 Aug 2002

^jCaptured by Wildlife Services in Burnett County, translocated to Vilas County 25 Jul 2002

^kPossible hybrid

^lRecaptured wolf; first captured in Jackson County on 24 Sep 2000.

^mRecaptured wolf; first captured in Jackson County on 28 Jul 2001, 35 lb. pup too small to collar

Table 2. Wolves captured and radio-tagged in Wisconsin in 2003.

Wolf Number	Sex/Age^a	Weight (lbs)	Pack/Area	County Captured	Date
<u>Northern Forest</u>					
G994 ^b	M/A	85	Ranger Island	Lincoln	20 Jul 03
G996 ^b	M/A	80	North Willow	Oneida	13 Jun 03
W332 ^c	F/A	75	Pelican Lake	Oneida	28 Oct 03
W462	M/A	70	Black Lake	Sawyer	01 Jun 03
W464	F/A	68	Moreland Lake	Bayfield	16 May 03
W466	F/Y	52	Bootjack Lake	Oneida	02 Jul 03
W469 ^d	M/A	85	Murray's Landing	Iron	06 Aug 03
W472 ^e	F/Y	44	Bearsdale	Bayfield	07 Nov 03
W473	M/A	91	Moose Lake	Douglas	29 Jun 03
W474	M/A	96	Dunbar	Marinette	19 May 03
W476	M/A	84	Truck Trail	Douglas	21 Jun 03
W479	M/P	46	Ranger Island	Lincoln	23 Aug 03
W481 ^d	M/A	80	Murray's Landing	Iron	07 Jul 03
W482 ^d	M/A	80	North Willow	Oneida	10 Jun 03
W485	F/Y	56	Averill Creek	Lincoln	07 Sep 03
W489	M/P	38	Averill Creek	Lincoln	23 Aug 03
<u>Central Forest</u>					
W311 ^f	F/A	68	Bear Bluff	Jackson	01 Aug 03
W411 ^g	F/P	26	Dead Creek	Jackson	23 Jul 03
W412 ^{gh}	F/P	28	Bear Bluff	Jackson	30 Jul 03
W413 ^g	F/P	30	Bear Bluff	Jackson	05 Aug 03
W414 ^g	F/P	27	Seneca	Wood	10 Aug 03
W415 ^g	F/P	36	Martin Marsh	Jackson	29 Aug 03
W416 ^g	M/P	53	Wildcat Mound	Jackson	09 Sep 03

16 wolves in northern forest (9 adult males, 2 adult females, 3 yearling females, 2 pup males)

7 wolves in central forest (1 adult female, 1 pup male, 5 pup females)

^a Age at time of capture assuming birth date 1 April (P = Pup, Y = Yearling, A = Adult)

^b Fitted with GPS collar and shock collar for aversion research project.

^c Re-capture by coyote trapper; originally captured as an adult in 2000

^d Fitted with VHS collar and shock collar for aversion research project.

^e Captured by coyote trapper.

^f Re-capture, originally captured as a yearling in 2000.

^g Fitted with ear transmitter for pup mortality research project.

^h Recaptured 8/2/03 and 8/4/03

Table 3. Wolf depredation cases on livestock and pets in Wisconsin in 2003.

Date	Animal Lost	Pack Involved	County	Payments	Trapping?
2/2-10/29	5 calves	Moquah	Bayfield	\$2250.00 & Pending	Yes
2/5	1 dog killed, 1 injured (Bluetick)	Haystack Corner	Rusk	\$1500.00	No
2/15	1 deer (deer farm)	Moquah	Bayfield	\$1200.00	No
4/19-8/12	2 calves	Riverside?	Burnett	Pending	Yes
4/22 & 5/14	4 calves	Blue Hills?	Barron	\$2850.00	Yes
4/29 & 5/12	4 sheep	Mondeaux Flowage	Taylor	\$300.00 & Pending	Yes
5/12	1 calf	Riverside?	Burnett	\$400.00	No
5/22	1 dog injured (Lab)	O'Brien Lake	Iron	\$279.02	No
5/27	1 dog injured (Beagle)	Pokegama River	Douglas	\$1212.66	No
6/21	1 dog injured (Plott)	Murray's Landing	Iron	\$332.21	No
6/30	1 calf	Ada Lake?	Forest	\$200.00	No
7/16	1 dog (Plott)	Haystack Corner	Sawyer	\$2500.00	No
7/23	1 dog (Plott)	Haystack Corner	Sawyer	\$750.00	No
7/26	1 dog (Redbone)	Blue Hills	Rusk	\$1800.00	No
8/1	1 cow, 1 calf	Mondeaux Flowage	Taylor	\$1500.00	Yes
8/2	2 calves	Loner?	Ashland	\$1100.00	No
8/4 & 8/15	9 lambs	Spring Creek?	Price	\$1125.00	Yes
8/22 & 8/23	2 sheep, 8 lambs	Oriente Falls	Bayfield	Pending	Yes
8/30	1 dog (Plott)	Haystack Corner	Rusk	\$2500.00	No
10/1	1 calf	Blue Hills?	Rusk	\$600.00	No
10/2	1 cow	Loner?	Burnett	\$1400.00	No
10/27	1 calf	Loner?	Chippewa	\$500.00	No
12/20	1 dog (Walker)	Murray's Landing	Iron	Pending	No

Table 3. cont.

23 cases	50 animals killed	11 packs	12 counties	\$21,798.89	7 farms
	4 animals injured	3 loners	14 farms		trapped
	18 calves killed				
	2 cows killed				
	17 lambs killed				
	7 sheep killed				
	1 deer killed (deer farm)				
	6 dogs killed				
	4 dogs injured				

Table 4. Wolf control cases in Wisconsin in 2003.

Date	Complaint Type^a	Pack Involved	Zone	County	Control Actions
1/30	Farm threat	Poplar River	1	Douglas	None
2/2-10/29	Chronic farm depredation	Moquah	1	Bayfield	DOW donated 2 donkeys 8 wolves trapped by W.S. & euthanized
2/5	Hunting dog depredation	Haystack Corner	1	Rusk	None
2/5	Farm threat	Seneca	2	Wood	None
2/5	Human safety threat	Seneca	2	Wood	None
2/5	Domestic dog missing	Seneca	2	Wood	None
2/15	Deer farm depredation	Moquah	1	Bayfield	None
4/19-8/12	Chronic farm depredation	Riverside?	1	Burnett	4 wolves trapped by W.S. & euthanized
4/22 & 5/14	Chronic farm depredation	Blue Hills?	3	Barron	1 wolf trapped by W.S. & euthanized
4/29 & 5/12	Farm depredation	Mondeaux Flowage	1	Taylor	Trapping attempted
5/5	Livestock & human safety threat	Ft. McCoy	1	Monroe	W.S. supplied pyrotechnics & electronic guard
5/12	Farm depredation	Riverside?	1	Burnett	None
5/22	Domestic dog injured	O'Brien Lake	1	Iron	None
5/27	Domestic dog injured	Pokegama River	1	Douglas	None
6/21	Domestic dog injured	Murray's Landing	1	Iron	None
6/30	Farm depredation	Ada Lake?	1	Forest	None
7/16	Hunting dog depredation	Haystack Corner	1	Sawyer	None
7/23	Hunting dog depredation	Haystack Corner	1	Sawyer	None
7/26	Hunting dog depredation	Blue Hills	1	Rusk	None
8/1 & 8/18	Farm depredation	Mondeaux Flowage	1	Taylor	1 wolf trapped by W.S. & euthanized
8/2	Farm depredation	Loner?	1	Ashland	None
8/4 & 8/15	Farm depredation	Spring Creek?	1	Price	Trapping attempted

Table 4. cont.

Date	Complaint Type	Pack Involved	Zone	County	Control Actions
8/22 & 8/23	Chronic farm depredation	Oriente Falls	1	Bayfield	3 wolves trapped by W.S. & euthanized
8/30	Hunting dog depredation	Haystack Corner	1	Rusk	None
10/1	Farm depredation	Blue Hills?	1	Rusk	None
10/2	Farm depredation	Loner?	3	Burnett	None
10/23	Farm threat	Hybrids?	3	Marquette	None
10/27	Farm depredation	Loner?	3	Chippewa	None
11/6	Farm threat (unconfirmed)	Hybrids?	3	Marquette	W.S. supplied strobe light
12/20	Hunting dog depredation	Murray's Landing	1	Iron	None
4 Chronic farm depredation			22 Zone 1	Trapping attempted on 7 farms;	
9 Farm depredation			3 Zone 2	17 wolves trapped & euthanized	
5 Farm threat			5 Zone 3	from 5 packs	
1 Deer farm depredation				Non-lethal control attempted on 3 farms	
6 Hunting dog depredation					
3 Domestic dog injured					
1 Domestic dog missing					
2 Human safety threat					

^aWolves were either confirmed present at the site of the complaint, or other evidence was available to suggest they were nearby. This should not be construed to mean wolves were responsible for the listed complaint in all circumstances.

93 wolf complaints were investigated by Wildlife Services in 2003 (includes depredation, injury, missing animal, & threat complaints).

23 were confirmed wolf

14 were probable wolf

3 were not classified (referred to W. S. by WDNR, wolves present in the area, no depredation occurred)

23 were unconfirmed

30 were confirmed non-wolf (this included 15 coyote, 9 dog or hybrid, 2 stillborn, 2 accident or injury, 1 bear, 1 vehicle)

Table 5. Wolf mortality in Wisconsin in 2003.

Date	Wolf Number	Age/Sex	County	Cause	Pack
1/6/03	W297	A M	Douglas	Mange	South Empire
1/7/03	W443	P F	Oconto	Shot	Oconto River
1/13/03	W395	A M	Langlade	Mange/Other wolves	Prairie River
1/21/03	W724	A F	Langlade	Mange	Prairie River
2/8/03	----	? ?	Lincoln	Vehicle collision	Disperser?
2/9/03	----	A M	Forest	Vehicle collision	?
2/15/03	----	P F	Iron	Vehicle collision	O'Brien Lake?
2/16/03	W427	Y F	Marathon	Mange/Disease?	Disperser
2/20/03	W433(hybrid)	A M	Marquette	Shot	Disperser
3/4/03	----	Y F	Marinette	Shot	Disperser
3/17/03	----	? M	Lincoln	Vehicle collision	?
3/20/03	W369	A F	Bayfield	Vehicle collision/Mange	Siskiwit Lake
04/15/03	----	AM	Sawyer	Shot?/Mange?	?
04/22/03	W343	AM	Portage	Vehicle collision	Mead?/Disperser?
04/24/03	----	AM	Waukesha	Vehicle collision	Disperser
04/29/03	W370	AF	Ashland	Unknown	Black Lake
05/06/03	----	AF	Burnett	Euthanized/Depredation	Riverside?
05/19/03	----	YF	Bayfield	Euthanized/Diseased	Bibbon Swamp?
05/20/03	----	AM	Burnett	Euthanized/Depredation	Riverside?
05/21/03	----	AM	Burnett	Euthanized/Depredation	Riverside?
05/23/03	W275	AF	?	?	Bear Bluff?
05/27/03	W442	AM	Juneau	?	Suk Cerney
05/28/03	----	AF	Barron	Euthanized/Depredation	Blue Hills
05/28/03	----	?M	Door	Shot	Disperser?
05/29/03	----(Hybrid?)	AM	Douglas	Euthanized/Vehicle coll.	Disperser?
06/23/03	----	YM	Washburn	Vehicle collision	Disperser?
07/08/03	----	PM	Ashland	Vehicle collision	Torch River
07/14/03	----	YF	Douglas	Vehicle collision	Moose Lake?
07/19/03	----	PM	Jackson	Vehicle collision	Wildcat Mound
07/26/03	----	AF	Burnett	Euthanized/Depredation	Riverside?
08/06/03	W241	AF	Bayfield	Vehicle collision	Porcupine Lake?
08/08/03	W412	PF	Jackson	Disease?	Bear Bluff
08/16/03	W431	AF	Bayfield	Euthanized/Depredation	Moquah
08/17/03	----	PM	Bayfield	Euthanized/Depredation	Moquah

Table 5. cont.

Date	Wolf Number	Age/Sex	County	Cause	Pack
08/17/03	----	AM	Bayfield	Euthanized/Depredation	Moquah
08/19/03	----	PM	Bayfield	Euthanized/Depredation	Moquah
08/21/03	----	AM	Bayfield	Euthanized/Depredation	Moquah
08/21/03	----	PF	Bayfield	Euthanized/Depredation	Moquah
08/22/03	----	PM	Bayfield	Euthanized/Depredation	Moquah
08/23/03	----	AM	Bayfield	Euthanized/Depredation	Orienta Falls?
08/24/03	----	PF	Bayfield	Euthanized/Depredation	Orienta Falls?
08/24/03	----	PM	Bayfield	Euthanized/Depredation	Orienta Falls?
08/24/03	----	PF	Bayfield	Euthanized/Depredation	Moquah
08/25/03	W476	AM	Douglas	?	Truck Trail
08/29/03	----	PM	Taylor	Euthanized/Depredation	Mondeaux Flowage
09/15/03	----	AM	Washburn	Shot	?
09/26/03	----	YM	Sauk	Vehicle collision	Disperser
11/23/03	----	A?M	Marinette	Shot	Disperser
11/25/03	W411	P F	Jackson	Shot	Dead Creek
11/25/03	W489	P M	Lincoln	Shot	Averill Creek
12/17/03	W464	A F	Bayfield	Other wolves?	Disperser
12/19/03	W351	A M	Ashland	Mange?	Chippewa River
12/19/03	W458	A F	Forest	Mange?	Johnson Springs?

Of 53 mortalities detected, 20 were Wisconsin collared wolves.

<u>Human Causes</u>	<u>All Mortalities</u>	<u>Collared Wolves Only</u>
Vehicle Collision	14 (26%)	3 (15%)
Euthanized/Depredation	17 (32%)	1 (5%)
Shot	9 (17%)	4 (20%)
 <u>Natural Causes</u>		
Mange	6 (11%)	6 (30%)
Disease	2 (4%)	1 (5%)
Other Wolves	1 (2%)	1 (5%)
 <u>Unknown Causes</u>	4 (8%)	4 (20%)